

Message

From: Greg Brunkhorst [gbrunkhorst@anchorqea.com]
Sent: 12/10/2020 4:10:38 PM
To: Sanga, Ravi [Sanga.Ravi@epa.gov]
CC: dberlin@anchorqea.com; Brick Spangler [Spangler.B@portseattle.org]; debra.williston@kingcounty.gov; jeff.stern@kingcounty.gov; Merv Coover [merv.coover@erm.com]; pete.rude@seattle.gov; Gardiner, William W CIV USARMY CENWS (USA [William.W.Gardiner@usace.army.mil]; aosullivan@suquamish.nsn.us
Subject: RE: Follow up to todays meeting Spreadsheets for Fines Normalization and Sediment Transport by Particle Size
Attachments: Surface Area Method Graphics_2020-12-10.xlsx; Surface Area Method Calculation_2020-12-10.xlsx; EW_AB_SmallGroupMeeting5_12-08-2020_v2.pdf

Ravi – attached are the surface area method spreadsheet model, the related graphics that go into the presentation, and the updated presentation.

I found a couple of copy-paste errors in the surface area calculation, maybe your team has picked up on:

1. The DF value of 17 ng/kg was a copy paste error – slide 9 has been corrected with the value 14 ng/kg
2. An astute observer would figure out that the percent change due to the surface area method should be the same for both chemicals (the bars for PCBs and DF in slide 10 for this method should be the exact same length). This highlights the error.
3. The DF input value of 5.8 ng/kg was not the “base case,” as it included sediment traps. The base case value of 6.1 ng/kg is now entered into the model.
4. To make sure the bars in slide 10 line up exactly, I input the PCBs base case value into the spreadsheet model with all the decimals, otherwise the graphic would show an apparent error (due to rounding only). This changes the PCBs values slightly.

Apologies for the inconvenience – we are planning comprehensive QA/QC steps as we move toward to final memo.

Let me know if there are any questions,
Greg

Greg Brunkhorst, PE

ANCHOR QEA, LLC
1119 Pacific Avenue, Suite 1600
Tacoma, WA 98402

C Ex. 6 Personal Privacy (PP)
D 206.971.2668

This electronic message transmission contains information that may be confidential and/or privileged work product prepared in anticipation of litigation. The information is intended for the use of the individual or entity named above. If you are not the intended recipient, please be aware that any disclosure, copying, distribution or use of the contents of this information is prohibited. If you have received this electronic transmission in error, please notify us by telephone at (206) 287-9130.

From: Sanga, Ravi <Sanga.Ravi@epa.gov>
Sent: Wednesday, December 9, 2020 5:38 PM
To: Greg Brunkhorst <gbrunkhorst@anchorqea.com>
Cc: Dan Berlin <dberlin@anchorqea.com>; Brick Spangler <Spangler.B@portseattle.org>; Debra Williston - Work <debra.williston@kingcounty.gov>; Jeff Stern <jeff.stern@kingcounty.gov>; Merv Coover <merv.coover@erm.com>; Pete Rude <pete.rude@seattle.gov>; Gardiner, William W CIV USARMY CENWS (USA <William.W.Gardiner@usace.army.mil>; aosullivan@suquamish.nsn.us
Subject: Follow up to todays meeting Spreadsheets for Fines Normalization and Sediment Transport by Particle Size

CAUTION – EXTERNAL EMAIL: This email originated from outside of Anchor QEA. Please exercise caution with links and attachments.

Hi Greg I just wanted to follow up with you regarding obtaining the spreadsheets for the fine normalization and sediment fate and transport by particle size slide. I have to admit, I was a bit concerned after the meeting after I reviewed the slide again. So I would like the spreadsheet data that was used so Bill and Elizabeth and I and the tribes can look at this issue further. Can I get the spreadsheets by tomorrow (Thursday) or latest Friday ?